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DWPI	l4 and polycarbonate\$	198	<u>L5</u>
DWPI	l3 and (polyester\$ or copolyester\$)	3634	<u>L4</u>
DWPI	naphthalene\$	22558	<u>L3</u>
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USPT	novapex\$	3	<u>L1</u>

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L5: Entry 135 of 198

File: DWPI

Mar 13, 1987

DERWENT-ACC-NO: 1987-112151

DERWENT-WEEK: 198716

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TITLE: Polyester fibre reinforced resin moulding compsn. - which does not damage the moulding machine or mould

PRIORITY-DATA: 1985JP-0193651 (September 2, 1985)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 62057455 A	March 13, 1987		005	
JP 93086818 B	December 14, 1993		005	C08L101/00

INT-CL (IPC): C08K 7/02; C08L 67/02; C08L 101/00

ABSTRACTED-PUB-NO: JP62057455A

BASIC-ABSTRACT:

Compsn. is blended with reinforcing polyester fibre comprising ethylene terephthalate repeating units and has an intrinsic viscosity of at least 0.85 (at 25 deg.C in o-chlorophenol), initial modulus of at least 90 g/denier and dry heat shrinkage of up to 4% at 210 deg.C.

The resin is thermoplastic resin having a m.pt. higher at least by 15 deg.C than that of the reinforcing polyester fibre and is pref. polyethylene terephthalate resin, polybutylene terephthalate, nylon-6, nylon-66, polycarbonate resin or polystyrene resin. The reinforcing polyester fibre is pref. polyethylene terephthalate opt. contg. up to 10 mol % other copolymerisable monomer (e.g., isophthalic, naphthalene dicarboxylic, adipic, trimellitic or oxybenzoic acid or diethylene glycol, propylene glycol or pentaerythritol). The reinforcing polyester is prepd. by melt-spinning polyester of intrinsic viscosity 0.95-1.5 or reaction mixt. of polyester having intrinsic viscosity of 0.7-0.9 with polymerisation accelerator, cooling rapidly or delay-cooling and solidifying the spun fibre.

USE/ADVANTAGE - The polyester fibre is not fragile and can be handled easily. Exposed fibre at the surface does not damage the skin. It is used for moulding building materials, furniture, containers, etc.

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L5: Entry 191 of 198

File: DWPI

Dec 12, 1974

DERWENT-ACC-NO: 1975-20129W

DERWENT-WEEK: 197512

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TITLE: Moulded articles with pearl-like luster - polycarbonates are mixed with 5-40 wt per cent. polyesters contg. naphthalene rings

PRIORITY-DATA: 1973JP-0042106 (April 16, 1973)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

JP 49129748 A

December 12, 1974

000

JP 81049948 B

November 26, 1981

000

INT-CL (IPC): C08L 67/02; C08L 69/00

ABSTRACTED-PUB-NO: JP49129748A

BASIC-ABSTRACT:

In an example, polycarbonate (mol. wt. 25,000) pellets derived from bisphenol A was mixed with 10 wt.% poly(tetramethylene-2,6-naphthalene) pellets, dried for 6 hr. at 120 degrees extrusion-pelleted at 279 degrees, dried for 6 hr. at 120 degrees, and injection-moulded at 900 kg./cm.² and 260-270 degrees to give a pearl-lustre-rich specimen with 138 degrees heat deformation temp., 634 kg./cm.² tensile strength, 120% breaking elongation, and 11.6 kg.Cm./cm. Izod notched impact strength, as compared with 103 degrees, 560 kg./cm.², 40%, and 4 kg.cm./cm. of that prep. from polycarbonate mixed with 40 wt.% methylmethacrylate resin.

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L5: Entry 15 of 198

File: DWPI

Apr 14, 1998

DERWENT-ACC-NO: 1998-280479

DERWENT-WEEK: 199825

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TITLE: Thin-walled plastics bottle - comprises biaxially stretched and oriented blow moulding from a polyethylene naphthalate resin

PRIORITY-DATA: 1996JP-0271581 (September 20, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 10095903 A	April 14, 1998		013	C08L067/00

INT-CL (IPC): B29C 49/64; B29C 49/78; B65D 1/09; B65D 81/18; C08G 63/123; C08L 67/00; C08L 69/00

ABSTRACTED-PUB-NO: JP10095903A

BASIC-ABSTRACT:

A thin-walled plastics bottle comprises a biaxially stretched and oriented blow moulding from a polyethylene naphthalate (PEN) resin, with the real stretch ratio in the trunk part of 15-35, wall thickness in the trunk part 100- 200 microns, that in the shoulder part 50-200 microns, the bottle being capable of being easily folded.

Also each claimed is the bottle which comprises a molding from (II) a blend of the polyethylene terephthalate(PET) copolymer resin from naphthalene dicarboxylic acid(NDC) and dimethyl terephthalate(DMT) at mol ratio of NDC/DMT= 85/15 to 92/8, with PET resin in blend weight ratio of copolymer/PET= 10/90 to 90/10, or from (III) a polyester copolymer of the formula (1); or from (IV) a blend of the polyester copolymer and a polycarbonate in a blend ratio of the copolymer/polycarbonate =50/50 to 80/20, each with the same moulding condition as described above.

HO-(-COArCOOR)n-H (1)

n= 100-1000; Ar= 2,6- naphthalene (30-98 mol. %) and phenylene groups (70-2)(totalling 100 mol. %); R= ethylene (5-90 mol. %) and 1,4-cyclohexyl ene. (95-10 mol. %) with cis-isomer/trans-isomer mol. ratio =0/100 to 40/60.

Also claimed is a molding process therefor, comprising moulding a preform by injection- or extrusion-moulding molten resin, setting the preform in the heated state into a blow molding metal mould, then molding the bottle by blowing an air into the preform with heating the metal mould. The preform trunk part temperature (X) is heated at 140- 150 deg. C, the metal mould temperature (Y) 110-120 deg. C, and air pressurised under 20- 50 kg/cm², or in that for the (II) blend, of which the copolymer/PET is 10/90, (X) is 110 - 120 deg. C, (Y) 85-95 deg. C, or in that for (II), of which the copolymer/PET is 40/60, (X) is 120- 130 deg. C, (Y) 90- 100 deg. C, or in that for (III), (X) is 130- 140 deg. C, (Y) 100- 115 deg. C, or in that for (IV) (X) is 135-140 which comprises the bottle and an external paper container containing the bottle, with the pouring outlet of the bottle projecting out through an opening of the container.

Also claimed is a composite vessel which comprised the bottle and a wooden-, metal or rigid plastic-external container, with room therebetween being filled with a plastic cushioning.

USE - This bottle is used as storing vessels for sakes, wines, and liquid seasonings.

ADVANTAGE - This bottle has excellent heat resistance, oxygen- barrier ability, cold impact resistance, and can be easily folded on the empty.

(FILE 'HOME' ENTERED AT 12:44:59 ON 09 JAN 2002)

FILE 'CA' ENTERED AT 12:45:12 ON 09 JAN 2002

FILE 'REGISTRY' ENTERED AT 12:45:17 ON 09 JAN 2002

L1 42555 S 107-21-1/CRN OR 110-63-4/CRN
L2 34633 S 88-99-3/CRN OR 121-91-5/CRN OR 100-21-0/CRN
L3 13123 S L1 AND L2
L4 1 S L3 AND 2169-87-1/CRN
L5 622 S L3 AND NAPHTHALENE?
L6 516 S L5 NOT N/ELS
L7 47 S L6 AND 3/NC

FILE 'CA' ENTERED AT 12:50:55 ON 09 JAN 2002

L8 424 S L7
L9 27 S L8 AND POLYCARBONATE?
L10 397 S L8 NOT L9
L11 110 S L10 AND C08G063/IC
L12 19 S L6 AND POLYCARBONATE? NOT L9
L13 120 S L10 AND C08L067/IC